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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/454,941	12/02/1999	DAVID B. KIRK	1391P	4446
75	590 06/19/2002			
SAWYER & ASSOCIATES			EXAMINER	
PO BOX 51418 PALO ALTO, 0			KIM, HAROLD J	
			ART UNIT	PAPER NUMBER

2182

DATE MAILED: 06/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	09/454,941	KIRK, DAVID B.			
Office Action Summary	Examiner	Art Unit			
·	Harold Kim	2182			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	h the correspondence addre	ess		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment.—See 37 CER.1.704(b).	6(a). In no event, however, may a re within the statutory minimum of thirty ill apply and will expire SIX (6) MONT cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this comm	nunication.		
Status					
1) Responsive to communication(s) filed on 02 D					
,	s action is non-final.				
3) Since this application is in condition for allowa closed in accordance with the practice under l			nerits is		
Disposition of Claims	zn panto gaayno, nooc che	,			
4) Claim(s) 1-28 is/are pending in the application					
4a) Of the above claim(s) is/are withdraw	n from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-28</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in rep					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)☐ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents	s have been received in Ap	pplication No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Ir	tummary (PTO-413) Paper No(s). Iformal Patent Application (PTO-1			

Application/Control Number: 09/454,941

Art Unit: 2182

DETAILED ACTION

1. Claims 1-28 are presented for examination.

Abstract

2. The abstract of the disclosure is objected to because it is not in proper abstract language and format. See MPEP § 608.01(b).

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to **250 words**. It is important that the abstract not exceed 250 words in length since the space provided for the abstract on the computer tape used by the printer is limited. A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless --
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. Claims 1, 2, 9-12, 16-17, 20-21 and 25-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Dye, US Patent no. 6,173,381.
- In re claim 1, Dye shows a controller chip [fig 5] comprising:
 an engine [210, 212, fig 5] for managing a memory [204, 206, 214, 216, 244, fig
 and including an interface [202]; and

Page 3

Application/Control Number: 09/454,941

Art Unit: 2182

a storage element [204, 206, 214, 216, 244, 246, fig 5] coupled to the engine, the storage element being accessible by a CPU [120, fig 2], where the engine receives commands from the CPU via the interface, manages the storage element and write the commands into the memory.

- 6. In re claim 2, Dye shows a FIFO buffer [204, 206, 214, 216, fig 5].
- 7. In re claim 9, Dye shows a graphics controllers chip [212, fig 5].
- 8. In re claim 10, Dye shows a graphics engine [212, fig 5].
- 9. In re claim 17, Dye shows the effective size of the FIFO buffer as viewed by the CPU can be as large as the memory [fig 5].
- 10. Claims 11-12, 16, 20-21, 25-26 are rejected under the same rationale as discussed above in claims 1, 2, 9, 10, 17.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 12. Claims 3-8, 13-15, 18-19, 22-24, 27, and 28 rejected under 35 U.S.C. 103(a) as being unpatentable over Dye, US Patent no. 6,173,381, as applied to claims 1, 2, 9, 10-12, 16-17, 20-21 and 25-26 above.
- 13. In re claims 3-5 and 7-8, Dye does not explicitly show a circular FIFO buffer, a double buffer, a triple buffer, a checking mechanism. Official Notice is taken that both the concept and the advantages of providing for a circular FIFO buffer, a double buffer,

Application/Control Number: 09/454,941

Art Unit: 2182

a triple buffer, a checking mechanism are old and well known in the art. Therefore, it would have been obvious to the ordinary skilled person in the art at the time the invention was made to include the circular FIFO buffer, double buffer, triple buffer, checking mechanism in Dye for more flexible device by allowing it to operate in multiple

14. In re claim 6, Dye shows the effective size of the FIFO buffer as viewed by the CPU can be as large as the memory [fig 5].

configurations and more reliable system by controlling and predicting data flow.

15. Claims 13-15, 18-19, 22-24, 27, and 28 are rejected under the same rationale as discussed above in claims 3-8.

Page 4

Application/Control Number: 09/454,941

Art Unit: 2182

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 746-7239 for regular communications (for informal or draft communications, please label "PROPOSED" or "DRAFT"), and

(703) 746-7238 for After Final communications.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the technology center receptionist whose telephone number is (703) 306-5631.

Direct any inquiries concerning drawing review to the Drawing Review Branch (703) 305-8404.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold Kim whose telephone number is (703) 305-1948. The examiner can normally be reached on Monday-Thursday 6 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on (703) 308-3301.

Harold J. Kim

Patent Examiner

June 16, 2002/HK

PERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100